SixDOF
Sensor

Consists of a laser in combination with simple optics and position sensitive detectors (PSDs).

- **Estimated to be about 200 times faster and 25 times more accurate than current 3-DOF sensors**
- Small, relatively low cost, non-contact sensor
- Increases capability and flexibility of computer-controlled machines
- Can be produced using loose manufacturing tolerances and inexpensive plastic optics and housing
- Easily calibrated using software
- Maintains micron-scale accuracy under variable environmental conditions
- U.S. Patent: 5,883,803

Some Potential Applications

- **Manufacturing automation** – machines will be able to adapt to tasks more easily
- **Aviation Quality Control** – vibration modes of aircraft wings can be easily monitored
- **Computing** – allows users to perform more complicated tasks
- **Robotic Surgery** – provides extra dexterity and greater accuracy
- **Medical Rehabilitation** – helps doctors diagnose muscle recovery
- **Hazardous Materials Handling** – helps perform dangerous tasks such as manipulating radioactive, toxic, or explosive materials

For more information click here

Companies interested in commercializing this technology should provide a written statement of interest that must include a description of corporate capability and experience relevant to this technology.
Written responses should be submitted by completing our online Company Contact Form.